



「『自由な表現の自由』を保障する権利は、言論の自由、表現の自由、思想の自由、良心の自由、宗教の自由、政治的意見の自由、科学的意見の自由、芸術的意見の自由、その他の自由を含む。』」[3]

「『liberal arts』natural languages 』 philosophies 』」[4]

「『AlphaGo 』」

「『Deepmind 』」[4]

「AlphaGo Master 』AlphaGo Master 』AlphaGo Master 』AlphaGo Zero 』AlphaGo Master 』AlphaGo Master 』」

「AlphaGo Zero 』AlphaGo Master 』AlphaGo Zero 』[5]AlphaGo Master 』16 』AlphaGo Zero 』18 』AlphaGo Zero 』14 』16 』45 』」

「1 』Nature Magazine 』AlphaGo 』Deepmind 』AlphaGo Zero 』AlphaGo Master 』」

「2) 』AlphaGo Zero 』local trap 』AlphaGo Zero 』Superhuman 』」

「AlphaGo Zero 』AlphaGo Master 』AlphaGo Master 』AlphaGo Master 』AlphaGo Master 』[6]Nature Magazine 』AlphaGo Zero paper 』AlphaGo Master 』deep-learning 』」

「AlphaGo Zero 』AlphaGo Master 』AlphaGo Master 』」

「AlphaGo Zero 』[7]game 』」

「Superhuman 』Clock 』IBM S/360 』AlphaGo Zero 』superhuman 』IBM S/360 』superhuman 』AlphaGo Zero 』Nature Magazine 』AlphaGo Zero paper 』superhuman 』」

「superhuman 』Technological Singularity 』Demis Hassabis 』AlphaGo 』」

「AlphaGo 』Deepmind team 』AlphaGo 』」



Demis Hassabis and AlphaGo [13] and Geoffrey Hinton

Turing Machine and Geoffrey Hinton Turing Machine Alan Turing

Dialogue Concerning the Two Chief World Systems [14] Socratic method [15]

The Sceptical of Chemist

On the Origin of Species

[16]

[17]

## Leukotomy BRIAN Initiative

Leukotomy

1 personalities mental diseases personalities BRAIN Initiative project

2 leukotomy Leukotomy BRAIN Initiative AlphaGo

3 personality intelligence Walter Freeman personality intelligence

BRAIN Initiative project NIH BRAIN 2025 Report “there is general agreement that types can be defined provisionally by invariant and generally intrinsic properties” invariant agreement

insights“envision an integrated, systematic census of neuronal and glial cell types”dynamic brain mapping “Link brain activity to behavior”“Produce conceptual foundations for understanding the biological basis of mental processes”mental processes behavior

BRAIN Initiative project personality intelligence brain mapping personality intelligence hidden assumptions

personality intelligence

BRAIN Initiative project brain mapping mental diseases personality intelligence leukotomy

leukotomy AlphaGo

personality intelligence mental diseases

BRAIN Initiative brain mapping human level intelligence personalities intelligence mental diseases BRAIN Initiative neurosciences AlphaGo generic human intelligence AlphaGo neurosciences [18]

AlphaGo Master AlphaGo Zero AlphaGo Zero AlphaGo AlphaGo Master AlphaGo

AlphaGo

Technological Singularity BRAIN Initiative project Technological Singularity baseless

AlphaGo Zero achieved superhuman performance Demis Hassabis AlphaGo

[1] □□□□□□□□□□□□□□□□□□

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[4] 碁盤 Cracking Go 碁盤 Deep Blue 碁盤 AlphaGo 碁盤 AlphaGo 碁盤

[5] 参见 <http://www.alphago-games.com/> 的 AlphaGo Zero 和 AlphaGo Zero 的棋谱。  
参见 <https://www.101weiqi.com/chessbook/player/38348/> 的棋谱。

[6] AlphaGo Master

[7] superhuman  
AlphaGo

Turing Machine limitation  
 AlphaGo

Crazy Stone AlphaGo  
 AlphaGo

AlphaGo 围棋人工智能挑战赛

AlphaGo 是 Google 开发的 AlphaGo Zero 是 AlphaGo 的升级版，达到了人类水平的人工智能。AlphaGo 是 Google 开发的 AlphaGo Zero 是 AlphaGo 的升级版，达到了人类水平的人工智能。

Google/Deepmind AlphaGo

[8] <http://www.alphago-games.com/> Full Strength of AlphaGo Zero, i.e. Final Form 40 Blocks 20 Blocks Not Full Strength of AlphaGo Zero AlphaGo Zero superhuman

[9] 2012 年 12 月 31 日 止 的 年 度 末 的 数 据 来 源 于 中 国 统 计 局 的 中 国 统 计 年 鉴 。

[10] □□□□:"Go gaming is strictly defined within a very small space. Industrial automations are typically designed in well controlled environments, but not strictly defined. Car driving is regulated, but the environment is not well controlled"□□□□  
□□□

[illegible]

[11] □□□  
□□□□□□□□□□□□□□□□

[12] □□□  
□□□  
□□□

[illegible]

AlphaGo 2016

[13] Google DeepMind AlphaGo Master defeated world champion Lee Sedol in the Go game. The first time a computer program won against a professional player in the Go game.

[14] Dialogue Concerning the Two Chief Word Systems 对话篇 Socratic Method  
苏格拉底问答法


AlphaGo

[illegible][illegible]

[15] AlphaGo  
AlphaGo

AlphaGo  
BRAIN Initiative project

[illegible]

[16] Leukotomy  **BRIAN Initiative**

[17] [REDACTED]  
[REDACTED]

I do not cross the boundary between sciences and religions; Gödel's  
theorems suggest metaphysics from humans may not work

[illegible][illegible]



[18] [https://www.youtube.com/watch?v=UuUjYlUj4e4](#)  
AlphaGo 战胜李世石